

D L  
7/29/82

**NATIONAL MARINE SERVICE**

INCORPORATED  
ESTABLISHED 1927

1750 BRENTWOOD BOULEVARD  
ST. LOUIS, MISSOURI 63144  
AREA 314 968-2700

EPA Region 5 Records Ctr.

One of the NICOR basic energy companies



295824

July 29, 1982

Karl J. Klepitsch, Jr., Chief  
Environmental Protection Agency  
Region V  
111 West Jackson Blvd.  
Chicago, Illinois 60604

**RECEIVED**

JUN 02 1983

E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

Re: Groundwater Monitoring

Dear Mr. Klepitsch:

Enclosed are the analysis and results of The Groundwater Monitoring Program for the National Marine Service Incorporated wastewater treatment facility.

The National Marine Service Incorporated Groundwater Monitoring Program was delayed due to confusion over the exact implementation requirements. For this reason, the first quarterly analysis results are the only results available. The second quarterly analysis will be provided as soon as they are available.

If you have any questions concerning this transmittal, please contact me at (314) 968-2700 or at the above address.

Sincerely,

David J. Miller  
Project Engineer

DJM:opo  
Enc.



# NATIONAL MARINE SERVICE

INCORPORATED  
ESTABLISHED 1927

One of the NICOR basic energy companies

1750 BRENTWOOD BOULEVARD  
ST. LOUIS, MISSOURI 63144  
AREA 314 968-2700

July 29, 1982

RECEIVED

## GROUND WATER MONITORING REPORT

### General Information.

EPA Identification Number - ILD042659672

Facility Address - National Marine Service Incorporated  
P. O. Box 38  
Hartford, Illinois 62048

Facility Location - Foot of Hawthorne Street  
Hartford, Illinois 62048

Facility Contact - E. E. Ahlemeyer  
Senior Vice President

### Specific Ground Water Monitoring Information

#### Well Location and Number.

Attachment #1 shows the locations and number assigned to each monitoring well. Attachment #1 also provides the direction of ground water flow determined by the Geotechnical Engineering firm providing the engineering and drilling services. This drawing indicates ground water flow is eastward away from well #1 and towards wells #2, 3 and 4.

#### Sampling Plan.

A sampling and analysis plan has been developed and is kept at the Hartford facility. Briefly, this plan includes procedures and techniques for:

1. Sample collection frequency
2. Sample collection procedures
3. Sample preservation and shipment
4. Analytical procedures
5. Chain of custody control

The sampling and analysis plan covers the analytical procedures to be used on the samples. Past water analysis has shown that the water from the Mississippi River (source of the ground water) varies in the amount of inorganic chemical constituents. National Marine has determined that the best method of determining ground water contamination is to perform analysis for constituents found in the surface impoundments. Since oil and petrochemical are treated in the surface impoundments, analysis to determine if these chemicals existed in the ground water were performed. Table 1 shows the recorded data for each sample taken from each well.

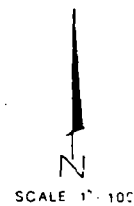
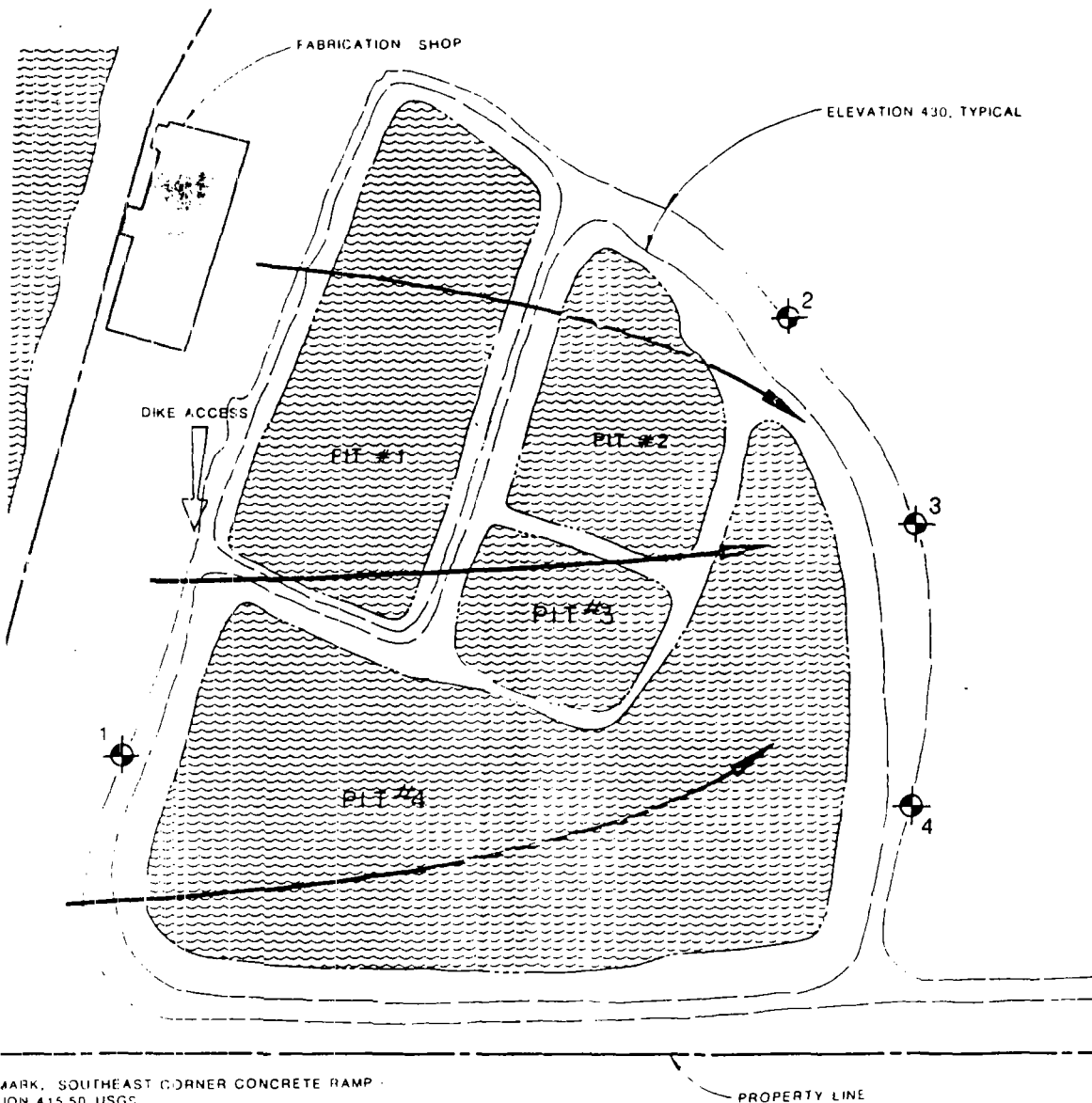
NATIONAL MARINE SERVICE  
INCORPORATED  
ST. LOUIS, MISSOURI 63144

July 29, 1982

TABLE 1



| WELL NUMBER               | 1                                   | 2       | 3       | 4       |
|---------------------------|-------------------------------------|---------|---------|---------|
| Sample Description        | GROUND WATER                        |         |         |         |
| Name of Sampler           | David J. Miller                     |         |         |         |
| Name of Transporter       | David J. Miller                     |         |         |         |
| Date of Sampling          | 7/19/82                             | 7/19/82 | 7/19/82 | 7/19/82 |
| Time of Sampling          | 13:43                               | 11:04   | 11:51   | 12:38   |
| Well Depth (Top of Pipe)  | 59'                                 | 58.5'   | 64.5'   | 68'     |
| Water Depth (Top of Pipe) | 20.3'                               | 20.7'   | 20.4'   | 20.4'   |
| Method of Pumping         | Air Jet                             |         |         |         |
| Sampling Method           | Bailer                              |         |         |         |
| Preservatives             | None                                |         |         |         |
| Sample Container          | Glass Quart Jar, Screwed Top        |         |         |         |
| Reason for Sampling       | Ground Water Monitoring             |         |         |         |
| Appearance of Sample      | Clear, No Odor                      |         |         |         |
| Name of Laboratory        | Industrial Testing Laboratory       |         |         |         |
| Sample Temperature        | 54.5°F                              | 56.0°F  | 57.0°F  | 54.0°F  |
| Thermal Preservation      | Storage in Ice Chest (Approx. 40°F) |         |         |         |
| Top of Pipe Elevation     | 431.81'                             | 431.45' | 430.82' | 431.09' |

Attachment Number 2, shows the results of the ground water analysis. The results show that no petrochemical solvents (e.g. Benzene, Toluene, etc.) were found in the ground water. The results are from the first quarter to be analyzed. The ground water sampling for the second quarter as required has not been completed due to confusion over the exact implementation requirements for the ground water monitoring program.



NOTE: GENERAL SITE LAYOUT AND ELEVATIONS OBTAINED FROM M.B. CORLEY & ASSOCIATES, INC. TOPOGRAPHIC MAP DATED FEBRUARY, 1967.

#### LEGEND

-  MONITORING WELL
-  APPROXIMATE DIRECTION OF GROUNDWATER FLOW

MONITORING WELL LOCATION PLAN

PLATE

MARK, SOUTHEAST CORNER CONCRETE RAMP -  
ION 415.50 USGS



# INDUSTRIAL TESTING LABORATORIES inc.

2350 Seventh Blvd.

St. Louis, Missouri 63104

ATTACHMENT No. 2

Chemists

Engineers

Metallurgists

314/771-7111

Report No. 82-7-226

July 27, 1982

RECEIVED

Examination of four (4) water samples submitted.

JUN 02 1983

National Marine Service  
1750 S. Brentwood Blvd.  
St. Louis, MO. 63144

P.O.: ES 73218  
Attn: Mr. David Miller

LAB - D.L.P.C.  
STATE OF ILLINOIS

## TEST REPORT

|                      | <u>Well #1</u> | <u>Well #2</u> | <u>Well #3</u> | <u>Well #4</u> |
|----------------------|----------------|----------------|----------------|----------------|
| C.O.D., mg/l         | 33             | 17             | 42             | 53             |
| Benzene, mg/l        | *1             | *1             | *1             | *1             |
| Toluene, mg/l        | *1             | *1             | *1             | *1             |
| Xylene, mg/l         | *1             | *1             | *1             | *1             |
| Assumed FA = Test *C | 6.94           | 5.70           | 6.76           | 7.11           |

\*less than.

Respectfully submitted,

INDUSTRIAL TESTING LABORATORIES, INC.

*Allan M. Siegel*

Allan M. Siegel, P.E.  
Director

Lab No. 33634-37  
LB7157  
JWS/CD<sub>2</sub>/hj

**NATIONAL MARINE SERVICE**

INCORPORATED  
SHIPYARD DIVISION

One of the NICOR basic energy companies

FOOT OF HAWTHORNE STREET  
POST OFFICE BOX 38  
HARTFORD, ILLINOIS 62048

WOOD RIVER - AREA 618 254-7451  
ST. LOUIS - AREA 314 355-4400

TELEX 270164  
NATMAR SVC HTFD

November 16, 1982

RECEIVED

JUN 02 1983

STATE OF ILLINOIS  
D.L.P.C.

Mr. Mark Haney  
Compliance Monitoring Section  
Division of Land Pollution Control  
Illinois Environmental Protection Agency  
2200 Churchill Road  
Springfield, Illinois 62706


Dear Mr. Haney,

Enclosed are the analysis and results of the Groundwater Monitoring Program for the National Marine Service Incorporated Wastewater Treatment Facility for the quarter of August, 1982, through October, 1982.

If you have any questions concerning this transmittal, please contact me at 618-254-7451 or at the above address.

Sincerely,

NATIONAL MARINE SERVICE INCORPORATED



David J. Miller  
Plant Engineer

DJM:mag

Enclosure;

# NATIONAL MARINE SERVICE

INCORPORATED  
SHIPYARD DIVISION

One of the NICOR basic energy companies

FOOT OF HAWTHORNE STREET  
POST OFFICE BOX 38  
HARTFORD, ILLINOIS 62048  
WOOD RIVER -- AREA 618 254-7451  
ST. LOUIS -- AREA 314 355-4400  
TELEX 270164  
NATMARSVC HTFD.

November 15, 1982

## GROUND WATER MONITORING REPORT

### General Information:

EPA Identification Number - ILD042659672  
Facility Address - National Marine Service Incorporated  
P. O. Box 38  
Hartford, Illinois 62048  
Facility Location - Foot of Hawthorne Street  
Hartford, Illinois 62048  
Facility Contact - E. E. Ahlemeyer  
Senior Vice President

Specific ground water monitoring information - Well location and number

Attachment #1 shows the locations and number assigned to each monitoring well. Attachment #1 also provides the direction of ground water flow determined by the geotechnical engineering firm providing the engineering and drilling services. This drawing indicates ground water flow eastward away from well #1 and towards wells #2, #3 and #4.

# NATIONAL MARINE SERVICE

INCORPORATED  
SHIPYARD DIVISION

One of the NICOR basic energy companies

FOOT OF HAWTHORNE STREET  
POST OFFICE BOX 38  
HARTFORD, ILLINOIS 62048

WOOD RIVER - AREA 618 254-7451  
ST. LOUIS - AREA 314 355-4400

TELEX 270164  
NATMARSVC HTFD

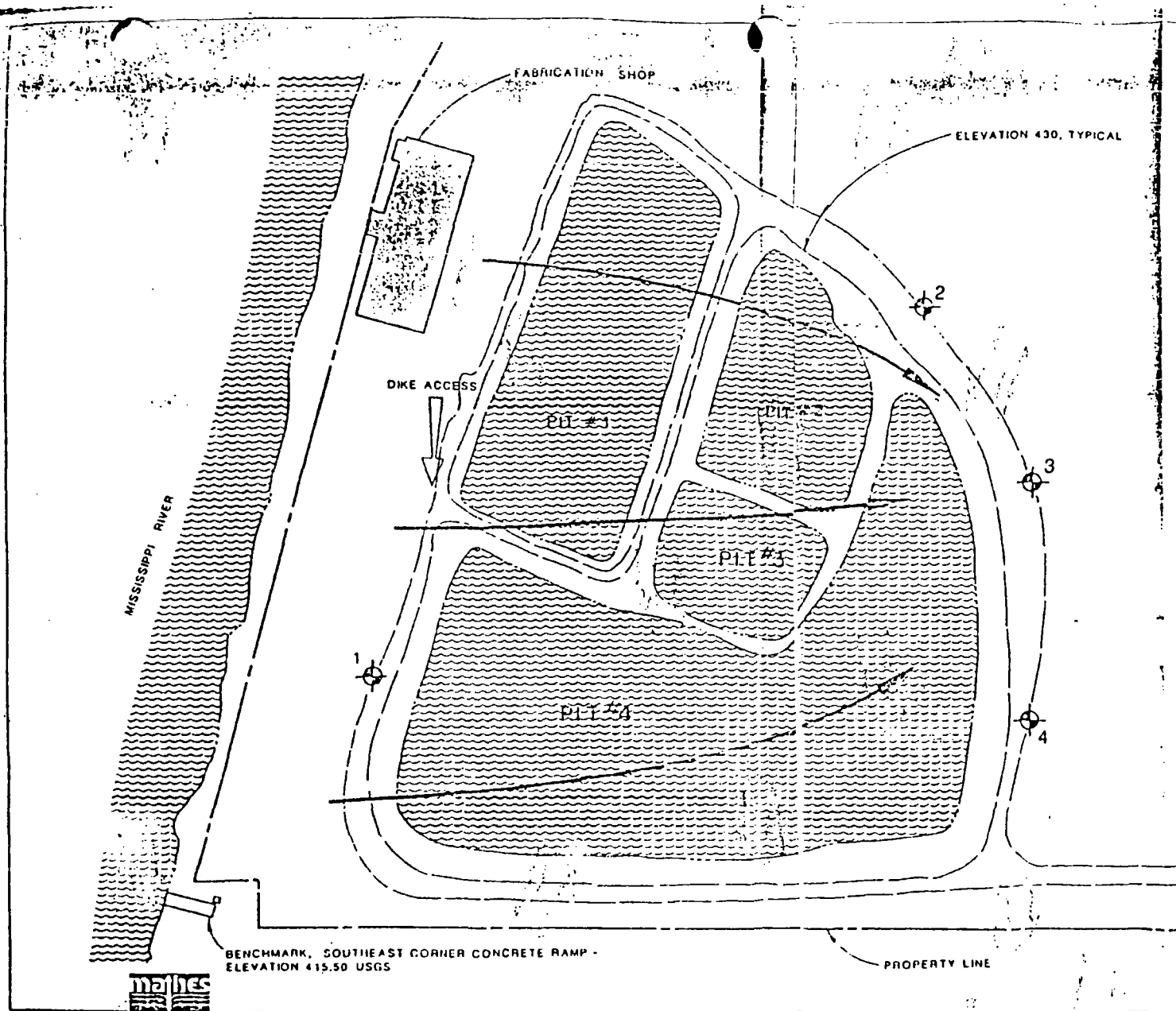
November 16, 1982

TABLE I

| Well Number               | #1                            | #2       | #3       | #4       |
|---------------------------|-------------------------------|----------|----------|----------|
| Sample Description        | Ground Water                  |          |          |          |
| Name of Sampler           | David J. Miller               |          |          |          |
| Name of Transporter       | David J. Miller               |          |          |          |
| Date of Sampling          | 10/25/82                      | 10/25/82 | 10/25/82 | 10/25/82 |
| Time of Sampling          | 16:10                         | 15:30    | 15:05    | 14:35    |
| Well Depth (top of pipe)  | 59.1'                         | 58.5'    | 64.4'    | 67.8'    |
| Water Depth (top of pipe) | 26.4'                         | 26.6'    | 26.5'    | 26.4'    |
| Method of Pumping         | Bailer                        |          |          |          |
| Sampling Method           | Bailer                        |          |          |          |
| Preservatives             | None                          |          |          |          |
| Sample Container          | Glass Quart Jar, Screwed Top  |          |          |          |
| Reason for Sampling       | Ground Water Monitoring       |          |          |          |
| Appearance of Sample      | Clear, No Odor                |          |          |          |
| Name of Laboratory        | Industrial Testing Laboratory |          |          |          |
| Sample Temperature        | 74°F                          | 76°F     | 73°F     | 74°F     |
| Thermal Preservation      | None                          |          |          |          |
| Top of Pipe Elevation     | 431.81'                       | 431.45'  | 430.82'  | 431.09'  |

Attachment #2 shows the results of the ground water analysis. The results show that no petro chemical solvents (e.g., benzene, toluene, etc.) were found in the ground water.





ATLAS

N

SCALE: 1" = 100'

NOTE: GENERAL SITE LAYOUT AND ELEVATIONS OBTAINED FROM MR. CORLEW & ASSOCIATES, INC. TOPOG. & M&P DATED FEBRUARY, 1981.

# LEGEND



MONITORING WELL



APPROXIMATE DIRECTION OF GROUNDWATER FLOW

MONITORING WELL LOCATION PLAN

PLATE 1

John Mathes & Associates, Inc.

# INDUSTRIAL TESTING LABORATORIES inc.

2350 Seventh Blvd.

St. Louis, Missouri 63104

Chemists

Engineers

Metallurgists

314/771-7111

Report No. 82-10-220

November 9, 1982

Examination of four (4) well water samples submitted.

National Marine Service  
1750 Brentwood Blvd.  
St. Louis, MO 63144

P. O. SS-1010  
Attn: Mr. David Miller

## TEST REPORT

|                                  | <u>Well 1</u> | <u>Well 2</u> | <u>Well 3</u> | <u>Well 4</u> |
|----------------------------------|---------------|---------------|---------------|---------------|
| pH                               | 6.94          | 7.00          | 6.96          | 7.11          |
| Specific Conductivity, $\mu$ hos | 813           | 633           | 654           | 714           |
| Benzene, mg/l                    | *1            | *1            | *1            | *1            |
| Toluene, mg/l                    | *1            | *1            | *1            | *1            |
| Xylene, mg/l                     | *1            | *1            | *1            | *1            |

\* Less than

Respectfully submitted,

INDUSTRIAL TESTING LABORATORIES, INC.

*Allan M. Siegel*  
Allan M. Siegel, P.E.  
Director

RW/JWS/CDD/ps  
LN - 35871-74  
LB 7179

*Copy*

**NATIONAL MARINE SERVICE**

INCORPORATED  
SHIPYARD DIVISION

One of the NICOR basic energy companies

FOOT OF HAWTHORNE STREET  
POST OFFICE BOX 38  
HARTFORD, ILLINOIS 62348  
HARTFORD—618 254-7451  
ST. LOUIS—314 355-4400  
TELEX 270164  
NATMAR SVC HTFD

March 10, 1983

Mr. Mark Haney  
Compliance Monitoring Section  
Division of Land Pollution Control  
Illinois Environmental Protection Agency  
200 Churchill Road  
Springfield, Illinois 62706

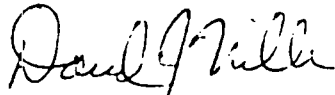
Dear Mr. Haney,

Enclosed are the analysis and results of the Groundwater Monitoring Program for the National Marine Service Incorporated Wastewater Treatment Facility for the quarter November 1982 through January 1983.

If you have any questions concerning this transmittal, please contact me at 618-254-7451 or the above address.

Sincerely,

NATIONAL MARINE SERVICE INCORPORATED



David J. Miller  
Plant Engineer

DJM:mag

Enclosure;

March 10, 1983

Ground Water Monitoring Report

1. General Information

- A. EPA Identification Number -- ILD042659672
- B. Facility Address -- National Marine Service Incorporated  
P. O. Box 38  
Hartford, Illinois 62048
- C. Facility Location - Foot of Hawthorne Street  
Hartford, Illinois 62048
- D. Facility Contact -- E. E. Ahlemeyer  
Senior Vice President

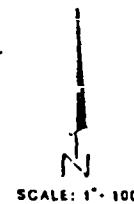
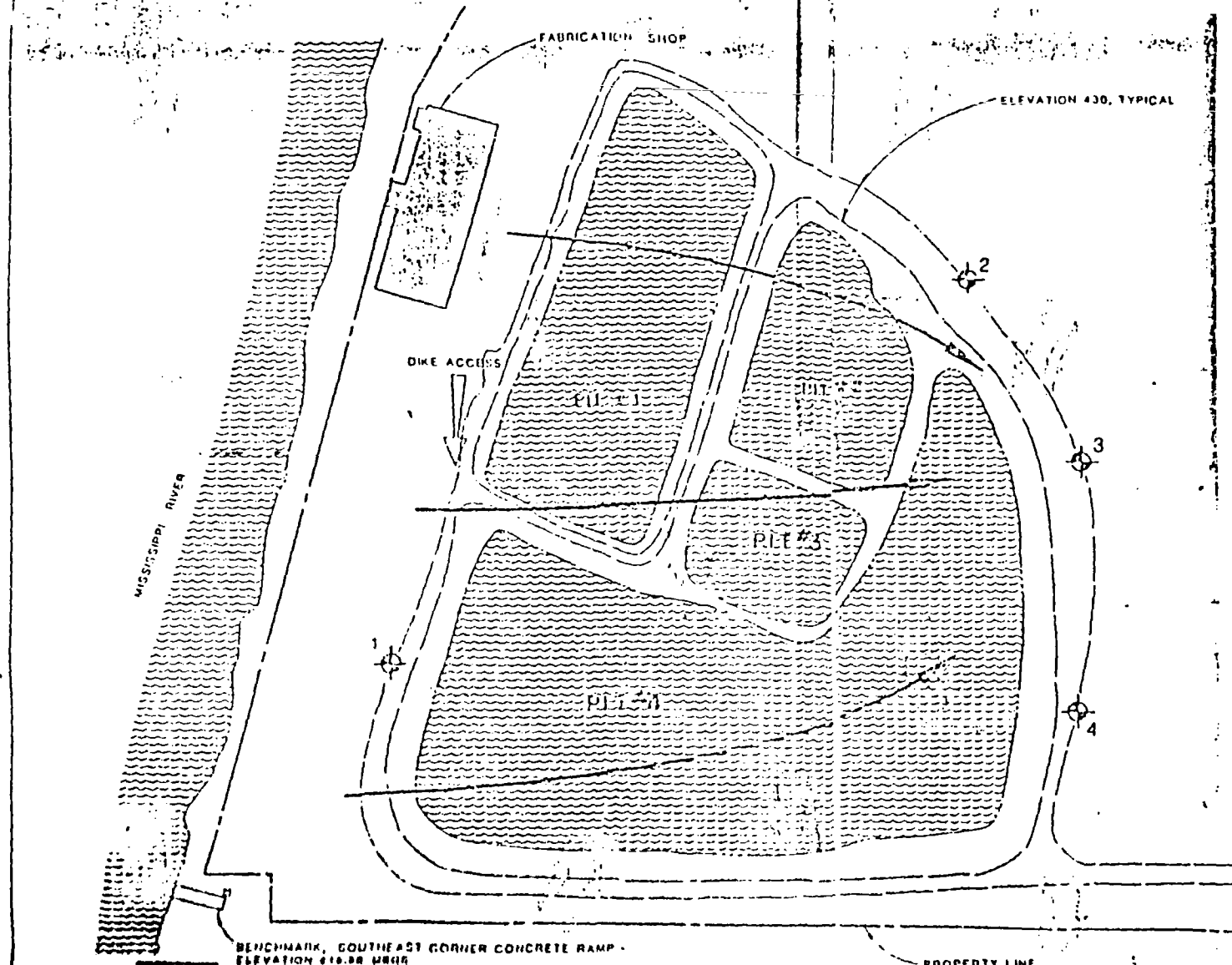
2. Specific Ground Water Monitoring Information

Attachment #1 shows the locations and number assigned to each monitoring well. Attachment #1 also provides the direction of ground water flow determined by the Geotechnical Engineering firm providing the engineering and drilling services. This drawing indicates ground water flow is eastward away from well #1 and towards wells #2, #3 and #4.

Table 1



| Well Number               | #1                                    | #2      | #3      | #4      |
|---------------------------|---------------------------------------|---------|---------|---------|
| Sample Description        | ----- Ground Water -----              |         |         |         |
| Name of Sampler           | ----- David J. Miller -----           |         |         |         |
| Name of Transporter       | ----- Roger Malloy -----              |         |         |         |
| Date of Sampling          | ----- March 2, 1983 -----             |         |         |         |
| Time of Sampling          | 11:26                                 | 10:53   | 10:14   | 09:43   |
| Well Depth (top of pipe)  | 59.0'                                 | 58.5'   | 64.4'   | 67.7'   |
| Water Depth (top of pipe) | 23.2'                                 | 23.4'   | 23.5'   | 23.2'   |
| Method of Pumping         | ----- Bailer -----                    |         |         |         |
| Sampling Method           | ----- Bailer -----                    |         |         |         |
| Preservatives             | ----- None -----                      |         |         |         |
| Sample Container          | ----- Glass Quart Jar, Screwed Top -- |         |         |         |
| Reason for Sampling       | ----- Ground Water Monitoring -----   |         |         |         |
| Appearance of Sample      | ----- Clear, No Odor -----            |         |         |         |
| Name of Laboratory        | ----- Industrial Testing Laboratory - |         |         |         |
| Sample Temperature        | 69°F                                  | 65°F    | 68°F    | 68°F    |
| Thermal Preservation      | ----- None -----                      |         |         |         |
| Top of Pipe Elevation     | 431.81'                               | 431.45' | 430.82' | 431.09' |

Attachment #2 shows the results of the ground water analysis. The results show that no organic solvents (e.g., benzene, toluene, etc.) were found in the ground water.



NOTE: GENERAL SITE LAYOUT AND ELEVATIONS OBTAINED FROM J. B. CONLEY & ASSOCIATES, INC. TOPOGRAPHIC MAP DATED FEBRUARY, 1981.

#### LEGEND

-  MONITORING WELL
-  APPROXIMATE DIRECTION OF GROUNDWATER FLOW

MONITORING WELL  
LOCATION PLAN

PLATE 1

John Mathes & Associates, Inc.

# INDUSTRIAL TESTING LABORATORIES inc.

Chemists

Engineers

Metallurgists

2350 Seventh Blvd.

St. Louis, Missouri 63104

314/771-7111

Report No. 83-3-13

March 7, 1983

Examination of four (4) well water samples submitted.

National Marine Service, Inc.  
1750 Brentwood Blvd.,  
St. Louis, MO. 63144

P.O. ES 77724  
Attn: Mr. David Miller

## TEST REPORT

| <u>Sample<br/>Identification</u> | <u>Well #1</u> | <u>Well #2</u> | <u>Well #3</u> | <u>Well #4</u> |
|----------------------------------|----------------|----------------|----------------|----------------|
| Benzene, mg/l                    | *1             | *1             | *1             | *1             |
| Toluene, mg/l                    | *1             | *1             | *1             | *1             |
| Xylene, mg/l                     | *1             | *1             | *1             | *1             |
| pH                               | 7.06           | 7.11           | 7.24           | 7.54           |
| Conductivity, $\mu$ hos          | 787            | 575            | 1064           | 690            |

\*Less than.

Respectfully submitted,

INDUSTRIAL TESTING LABORATORIES, INC.

*Allan M. Siegel*  
Allan M. Siegel, P.E.  
Director

JWS:RW:ck  
LN 38874-77  
LB 9027-8954

# INDUSTRIAL TESTING LABORATORIES inc.

2350 Seventh Blvd.

St. Louis, Missouri 63104

Chemists

Engineers

Metallurgists

314/771-7111

Report No. 83-5-113

May 16, 1983

Examination of four (4) well water samples submitted.

National Marine Service, Inc.  
P.O. Box 38  
Hartford, IL. 62048

P.O.: ES-79127  
Attn: Mr. Gene Daniels

## TEST REPORT

|               | <u>Well #1</u> | <u>Well #2</u> | <u>Well #3</u> | <u>Well #4</u> |
|---------------|----------------|----------------|----------------|----------------|
| Benzene, mg/l | *1             | *1             | *1             | *1             |
| Toluene, mg/l | *1             | *1             | *1             | *1             |
| Xylene, mg/l  | *1             | *1             | *1             | *1             |
| pH            | 7.45           | 7.13           | 7.29           | 7.20           |
| Conductivity  | 917            | 562            | 855            | 704            |

\*less than.

Respectfully submitted,

INDUSTRIAL TESTING LABORATORIES, INC.

*Allan M. Siegel*  
Allan M. Siegel, P.E.,  
Director

Lab No. 40581-4  
LB9050  
RW/CD<sub>2</sub>/JWS/hj





ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS  
INTER-OFFICE CORRESPONDENCE

DATE: 12/14/78

MEMO TO: File

FROM: Dave/Lieties-Southern

SUBJECT: Madison COUNTY - D.L.P.C. Inspection 11905002  
Hartford 1 Clark Oil

GENERAL REMARKS: Exposed demo observed by the west bank of  
of the ~~see~~ pond on site. Much of this requires  
final cover. Several fresh piles of refuse  
unspread and uncompacted. Observed an asbestos  
like substance and an unidentified sludge-like  
material. Traffic is driving around restrictive  
cable at entrance. Appears that they eventually want to fill pond.

DIAGRAM:

LPC-19

